

वस्त्रादि — हथकरघा निर्मित अस्तर लगाने
के लिए सूती रंजित कपड़ा — विशिष्टि

(दूसरा पुनरीक्षण)

**Textiles — Handloom Cotton Lining
Cloth, Dyed — Specification**

(*Second Revision*)

ICS 59.080.30

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भारतीय मानक ब्यूरो

BUREAU OF INDIAN STANDARDS

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FOREWORD

This Indian Standard (Second Revision) was adopted by the Bureau of Indian Standards, after the draft finalized by the Handloom and Khadi Sectional Committee had been approved by the Textiles Division Council.

This standard was originally published in 1957 and was subsequently revised in 1991. The standard has again been revised to incorporate the following major changes:

- a) Method of test for count of yarn along with its tolerance has been specified;
- b) Tolerances for ends/dm, picks/dm and mass have been modified;
- c) Test method for identification of material has been incorporated;
- d) Sampling plan has been updated;
- e) BIS certification marking clause has been modified; and
- f) References to Indian Standards have been updated.

The composition of the Committee responsible for the formulation of this standard is given in Annex E.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated expressing the result of a test or analysis, shall be rounded off in accordance with IS 2 : 2022 ‘Rules for rounding off numerical values (*second revision*)’. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

*Indian Standard***TEXTILES — HANLOOM COTTON LINING CLOTH, DYED — SPECIFICATION***(Second Revision)***1 SCOPE**

1.1 This standard prescribes constructional particulars and other requirements for two varieties of handloom cotton lining cloth, dyed.

1.2 This standard does not specify the general appearance, feel, finish, etc.

2 REFERENCES

The standards listed in Annex A contain provisions which, through reference in this text, constitute provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent edition of these standards.

3 ATMOSPHERIC CONDITIONS FOR TESTING

Test specimens may be conditioned and tested in the

prevailing atmosphere for determining the conformity of the cloth to this standard. However, in all cases of disputes, specimens shall be conditioned and tested in the standard atmosphere as specified in the referred Indian Standards on test methods

4 YARN

The cotton yarn used shall conform to the requirements specified in IS 171.

5 REQUIREMENTS

5.1 The cloth shall conform to the requirements specified in Table 1.

5.1.1 However, breaking load requirement shall be an optional requirement. It shall be enforced only when conformance of cotton yarn to the requirements specified in IS 171 is not known.

Table 1 Constructional Particulars and Breaking Load Requirements for Handloom Cotton Lining Cloth, Dyed

(Clause 5.1)

Sl No.	Variety No.	Count of Yarn: Universal Count (Cotton Count)		Ends/dm	Picks/dm	Mass g/m ²	Breaking Load N	
		Warp	Weft				Warp	Weft
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
i)	1	30 tex (20 s)	30 tex (20 s)	224	340	205	440	510
ii)	2	27 tex (22 s)	22 tex (26 s)	350	200	160	570	270
Tolerance, percent	—	± 5	± 5	± 5	± 5	± 5	- 5 on average value and - 15 on individual reading	
Method of Test, Ref to	—	IS 3442		IS 1963		IS 1964 or Annex D	IS 1969 (Part 1)	

5.2 The cloth shall also conform to the requirements specified in Table 2.

5.3 The weave of the cloth shall be as under:

Sl No.	Variety No.	Weave
(1)	(2)	(3)
i)	1	5-end weft sateen
ii)	2	5-end warp satin

5.4 Dimensions

Length and width of the cloth when determined in accordance with IS 1954 shall be as agreed to between the buyer and the seller or as declared by the seller subject to the tolerances specified in the Government of India, Ministry of Commerce and Industry Notification No. S.O. 2937, dated 20 September 1962 issued under *Trade and Merchandise Marks Act, 1958* (43 of 1958) (see Annex B).

5.5 In order to illustrate or specify the indeterminable

characteristics, such as general appearance lustre, feel and shade, a sample has been agreed upon and sealed, the supply shall be in conformity with the sample in such respects.

5.5.1 The custody of the sealed sample shall be a matter of prior agreement between the buyer and the seller.

6 SAMPLING

6.1 Lot

The quantity of the cloth of the same variety delivered to one buyer against one dispatch note shall constitute a lot.

6.2 The conformity of the lot to the various requirements specified in the standard shall be determined on the basis of the tests carried out on the samples selected from the lot.

6.3 Unless, otherwise agreed, the number of pieces selected at random for inspection shall be in accordance with the Table 3.

Table 2 Other Requirements for Handloom Cotton Lining Cloth, Dyed

(Clause 5.2)

Sl No.	Characteristic	Requirement	Method of Test, Ref to
(1)	(2)	(3)	(4)
i)	Dimensional change, percent, <i>Max</i>	4	IS 2977
ii)	Scouring loss, percent, <i>Max</i>	2.5	IS 1383
iii)	pH value of the aqueous extract	6.0 to 8.5	IS 1390
iv)	Fibre identification, <i>Min</i>	100 percent cotton	IS 667
v)	Colour fastness (for dyed fabrics only): a) Light (change of colour) b) Washing Test A(1): 1) Change in colour 2) Staining on fabric c) Perspiration: 1) Change in colour 2) Staining on fabric	3 or better 4 or better 4 or better 4 or better 4 or better	IS/ISO 105-B01 or IS/ISO 105-B02 IS/ISO 105-C10 IS/ISO 105-E04

Table 3 Sample Size and Permissible Number of Non-Conforming Pieces

(Clause 6.3)

Sl No.	Lot Size	Sample Size	Permissible Number of Non-conforming Items	Sub-sample Size
(1)	(2)	(3)	(4)	(5)
i)	Up to 90	5	0	3
ii)	91 to 150	8	0	3
iii)	151 to 500	13	1	5
iv)	501 to 1 200	20	1	5
v)	1 201 to 10 000	32	2	8
vi)	10 001 to 35 000	50	3	8
vii)	35 001 to 500 000	80	5	13
viii)	500 001 and above	125	7	13

6.3.1 For selection of samples at random from the lot, procedure given in IS 4905 may be followed.

6.4 Number of Samples and Criteria for Conformity

It shall be as follows:

Sl No.	Characteristics	Number of Samples	Criteria for Conformity
(1)	(2)	(3)	(4)
i)	Count, ends, picks, mass, length, width and visual inspection	According to col (3) of Table 3	Number of nonconforming pieces shall not exceed the corresponding number given in col (4)
ii)	Dimensional change, colour fastness, scouring loss, pH value, and breaking load	According to col (5) of Table 3	All the test pieces shall meet the requirement

7 INSPECTION

7.1 The cloth, when visually inspected, should be free from the major flaws listed in Annex C.

7.1.1 The number of permissible major flaws per unit length in the cloth shall be as agreed to between the buyer and the seller.

8 MARKING

8.1 The product shall be suitably marked with the following information:

- Name of the material;
- Length (m) and width (cm);
- Variety and GSM (g/m^2);
- Indication of the source of manufacture; and

- Other declarations required as per law in force.

8.2 BIS Certification Marking

The product conforming to the requirements of this standard may be certified as per the conformity assessment schemes under the provisions of the *Bureau of Indian Standards Act, 2016* and the Rules and Regulations framed thereunder, and the product may be marked with the Standard Mark.

9 PACKING

Unless otherwise agreed upon by the buyer and the seller, the cloth shall be preferably packed in bales or cases in conformity with the procedure laid down in IS 1347 or IS 293.

ANNEX A

(Clause 2)

LIST OF REFERRED STANDARDS

IS No.	Title	IS No.	Title
IS 293 : 1980	Code of seaworthy packaging of cotton yarn and cloth (<i>third revision</i>)		maximum force and elongation at maximum force using the strip method (<i>fourth revision</i>)
IS 667 : 1981	Methods for identification of textile fibres (<i>first revision</i>)	IS 2977 : 1989	Fabrics (other than wool) — Method for determination of dimensional changes on soaking in water (<i>first revision</i>)
IS 1347 : 1972	Specification for inland packaging of cotton cloth and yarn (<i>first revision</i>)		
IS 1383 : 1977	Methods for determination of scouring loss in grey and finished cotton textile materials (<i>first revision</i>)	IS 3442 : 2023	Textiles — Method for determination of crimp and linear density of yarn removed from fabric (<i>second revision</i>)
IS 1390 : 2022/ ISO 3071 : 2020	Textiles — Determination of pH of aqueous extract (<i>third revision</i>)	IS 4905 : 2015/ ISO 24153 : 2009	Random sampling and randomization procedures (<i>first revision</i>)
IS 1954 : 1990	Determination of length and width of woven fabrics — Methods (<i>second revision</i>)	IS/ISO 105-B01 : 2014	Textiles — Tests for colour fastness: Part B01 Colour fastness to light: Daylight
IS 1963 : 1981	Methods for determination of threads per unit length in woven fabrics (<i>second revision</i>)	IS/ISO105-B02 : 2014	Textiles — Tests for colour fastness: Part B02 Colour fastness to artificial light: Xenon arc fading lamp test
IS 1964 : 2001	Textiles — Methods for determination of mass per unit length and mass per unit area of fabrics (<i>second revision</i>)	IS/ISO 105-C10 : 2006	Textiles — Tests for colour fastness: Part C10 Colour fastness to washing with soap or soap and soda
IS 1969 (Part 1) : 2018	Textiles — Tensile properties of fabrics: Part 1 Determination of	IS/ISO 105-E04 : 2013	Textiles — Tests for colour fastness: Part E04 Colour fastness to perspiration

ANNEX B

(Clause 5.4)

**EXTRACTS FROM THE GOVERNMENT OF INDIA, MINISTRY OF COMMERCE AND INDUSTRY (TRADE AND MERCHANDISE MARKS) NOTIFICATION NO. S.O. 2937,
DATED 20 SEPTEMBER 1962**

B-1 A trade description of length stamped on grey, bleached, mercerised or coloured cotton piece goods:

- a) in pieces stamped as, of length 9 metres and below, the stamped length shall not exceed the actual length by more than 1 percent of the piece length or 7.5 cm, whichever is less; and
- b) in pieces stamped as, of length above 9 metres, the stamped length shall not exceed the actual length by more than 0.6 percent of the piece length or 7.5 cm, whichever is higher.

Provided that the average length of the pieces in question shall not be less than the stamped length.

B-2 A trade description of width stamped on grey,

bleached, mercerised or coloured cotton piece goods:

- a) in pieces stamped as, of width 102 cm or below, the stamped width shall not exceed the actual width at any point by more than 1.3 cm;
- b) in pieces stamped as, of width over 102 cm up to 152 cm, the stamped width shall not exceed the actual width at any point by more than 1.25 percent of the stamped width of the piece; and
- c) in pieces stamped as, of width 152 cm and above, the stamped width shall not exceed the actual width at any point by more than 1.25 percent of the stamped width of the piece or 2.5 cm, whichever is less.

Provided that average width of the piece in question shall not be less than the stamped width.

ANNEX C

(Clause 7.1)

LIST OF MAJOR FLAWS

- a) One or more ends missing in the body of the material throughout its length, more than three ends missing at a place and running over 60 cm, or prominently noticeable double end running throughout the piece;
- b) Undressed Snarls noticeable over a length exceeding 5 percent of the length of the piece;
- c) Smash definitely rupturing the texture of the fabric;
- d) Hole, cut or tear;
- e) Reed marks prominently noticeable over a length exceeding 5 percent of the piece;
- f) Defective or damaged selvedge noticeable over a length exceeding 5 percent of the length of the piece;
- g) Skewing of more than three percent on weft;
- h) Weft crack or two or more missing picks across the width of the fabric;
- j) Warp or weft bar due to the difference in raw material, count, twist, lustre, colour, shade or spacing of adjacent groups of yarns (starting mark);
- k) More than two adjacent ends running parallel broken or missing and extending beyond 10 cm;
- m) Noticeable warp or weft float in the body of the fabric;
- n) Noticeable oil or other stain in the fabric;
- p) Oily weft in the fabric;
- q) Prominently noticeable slub;
- r) Conspicuous broken pattern;
- s) Gout due to foreign matter, usually lint or waste woven into the fabric;
- t) Prominent selvedge defect;
- u) Significant shading or listing in fabrics having a gradual change in tone or depth of shade of fabric (excluding selvedge or border running parallel to the selvedge);
- v) Coloured flecks;
- w) Blurred or dark patch;
- y) Patchy, streaky or uneven dyeing;
- z) Dye bar; and
- aa) Fuzzy appearance.

ANNEX D

(Table 1)

METHOD FOR DETERMINATION OF MASS OF FABRIC

D-1 Cut four specimens of 100 mm × 100 mm each from a sample. Condition all the specimens in a desiccator charged with saturated solution of sodium nitrate at 27 °C ± 2 °C for a period of 24 hours. Remove all the specimens from the desiccator and

immediately determine their collective mass in a weighing balance to the nearest milligram.

D-2 Calculate the mass of the fabric in g/m².

ANNEX E

(Foreword)

COMMITTEE COMPOSITION

Handloom and Khadi Sectional Committee, TXD 08

<i>Organization</i>	<i>Representative(s)</i>
Weavers Service Centre, Delhi	SHRI VISHESH NAUTIYAL (Chairperson) SHRI VIKAS KUMAR (<i>Alternate</i>)
Baster Adimjati Sewak Sangh, Baster	SHRI SUMIT DAS SHRI AMIT DAS (<i>Alternate</i>)
Central Pollution Control Board, New Delhi	SHRI P. K. MISHRA SHRI RISHABH SRIVASTAV (<i>Alternate</i>)
Central Reserve Police Force, New Delhi	SHRI D. P. UPADHYAY SHRI SANJEEV KUMAR SINGH (<i>Alternate</i>)
Department of Handlooms & Textiles, Chennai	SHRI T. P. RAJESH DR K. KARNAN (<i>Alternate</i>)
Gandhigram Rural Institute, Dindigul	REPRESENTATIVE
Haryana Khadi Gramodyog Sangh, Karnal	SHRI PAWAN GARG SHRI R. S. YADAV (<i>Alternate</i>)
ICAR – Central Institute for Research on Cotton Technology, Mumbai	DR SUJATA SAXENA DR A. S. M. RAJA (<i>Alternate</i>)
Indian Institute of Handloom Technology, Varanasi	DR P. THENNARASU
Indian Institute of Handloom Technology, Jodhpur	DR J. SIVAGNANAM
Indo Tibetan Border Police, New Delhi	SHRI UTTAM KUMAR SHRI ANAND KUMAR (<i>Alternate</i>)
Jan Sewa Ashram, Aligarh	SHRI R. K. SHARMA SHRI AKHILESH KUMAR AWASTHI (<i>Alternate</i>)
Karnatka Khadi Gramodyog Samyuktha Sangha, Hubli	SHRI K. V. PATTAR SHRI SHIVANANDA S. (<i>Alternate</i>)
Khadi & Village Industries Commission, New Delhi	SHRI P. NALLAMUTHU SHRI RAM NARAYAN (<i>Alternate</i>)
Khadi Dyers & Printers, Mumbai	SHRI D. N. BHATT SHRI V. D. JOSHI (<i>Alternate</i>)
Khadi Gramodyog Mandal, Rampur	SHRI RAKESH CHAUDHARY SHRI PRINCE CHAUDHARY (<i>Alternate</i>)
Kshetriya Khadi Gramodyog Samiti, Dausa	SHRI R. K. SINGH
Madhya Bharat Khadi Sangh, Gwalior	SHRIMATI NEELU MEKLE SHRI HARISH MEKLE (<i>Alternate</i>)
Mahatma Gandhi Institute for Rural Industrialization, Wardha	REPRESENTATIVE

<i>Organization</i>	<i>Representative(s)</i>
Metpalli Khadi Gramodyog Pratisthan, Metpalli	SHRI G. MADHAV
Ministries of Defence (DGQA), New Delhi	SHRI ARVIND COMPATHANE SHRI N. SENTHIL KUMAR (<i>Alternate</i>)
Ministries of Health, New Delhi	REPRESENTATIVE
National Handloom Development Corporation Ltd, Gautam Budh Nagar	DR SAKTHIVEL PERUMALSAMY SHRI JITENDRA TOLAMBIYA (<i>Alternate</i>)
Northern Railways, New Delhi	SHRI SUDHANSU KUMAR GUPTA
Northern India Textile Research Association, Ghaziabad	DR M. S. PARMAR SHRI SANJEEV SHUKLA (<i>Alternate</i>)
Office of The Development Commissioner for Handlooms, New Delhi	SHRI SIDDHARTH SINGH SHRI VINAY KUMAR (<i>Alternate</i>)
Rastriya Khadi Gramodyog Federation, Moradabad	SHRI ANIL KUMAR SINGH SHRI KULDEEP SINGH (<i>Alternate</i>)
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The Cotton Textiles Export Promotion Council (TEXPROCIL), Mumbai	DR SIDDHARTHA RAJAGOPAL SHRI RAJESH SATAM (<i>Alternate</i>)
The Handloom Export Promotion Council, Chennai	DR M. SUNDAR EXPORT PROMOTION OFFICER (<i>Alternate</i>)
The Tamil Nadu Handloom Weavers' Cooperative Society Ltd, Chennai	SHRI T. N. VENKATESH SHRI K. KATHIRESAN (<i>Alternate</i>)
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This Indian Standard has been developed from Doc No.: TXD 08 (21139).

Amendments Issued Since Publication

Amend No.	Date of Issue	Text Affected

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